

## Product Datasheet

# 16-slot Fiber Media Converter 2U Rack

(ONV-2U-16)



## OVERVIEW

The ONV-2U-16 is a Fiber media converter independently developed by ONV. It has a 2U standard 19-inch installation chassis system, supports up to 16 card-type business units, supports a variety of hybrid access optical transceivers of different specifications, and provides a unified power supply. Reducing the connection line is simplified, the structure is simplified, and it is easy to manage and maintain. The rack supports hot-swap and can choose a single power supply or dual power supply mode. When using dual power supplies, the two power supplies will supply power at the same time, which reduces the load of each power supply and prolongs the service life of the power supply. When one power supply fails, the other power supply can supply power independently so that the work of the converter is not interrupted. When repairing and replacing the power supply, it is not necessary to pull out the fiber media converter or remove the rack from the cabinet. It is only necessary to pull out the faulty power supply from the back of the rack for repair or replacement, which makes maintenance extremely convenient and fast. Therefore, it can provide high reliability, high capacity, high integration, high performance, and economical and practical optical fiber network center solutions for the optical fiber Ethernet system. It has the

remarkable characteristics of stable operation, large power supply capacity, convenient operation, and easy maintenance. It is suitable for optical fiber access application scenarios such as security monitoring, wireless coverage, intelligent transportation, and safe cities to build cost-effective and stable communication networks.

## FEATURE

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Applicable to areas with large power fluctuations.
- ◇ All aluminum alloy shell, high shielding, strong anti-interference ability.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ The MTBF is more than 50,000 hours, which meets the carrier-class operation standard.
- ◇ All 16 slots of the rack support hot-swap function, and the working status indicators are complete.
- ◇ With advanced adaptive technology, no electrical and optical adjustments are required for installation.
- ◇ Standard 2U chassis, which can be installed in the equipment room rack for unified management and maintenance.
- ◇ The rack can insert up to 16 different types of Fiber media converter modules at the same time, with large capacity and easy upgrade.
- ◇ Each module can be plugged and unplugged on the rack independently of each other, and can also work in cooperation with each other.
- ◇ The redundant configuration of the main and backup dual AC power supplies ensures the uninterrupted operation of the system, low power consumption, stability and reliability.
- ◇ It supports the combination of 100M Ethernet port and optical port, which is convenient for users to network flexibly and meets the networking requirements of various scenarios.
- ◇ Modular power supply design is adopted, which is easy to maintain and has better shielding to prevent electromagnetic signals generated by the power supply from interfering with the normal operation of the module group.

## TECHNICAL SPECIFICATION

Model	ONV-2U-16	ONV-2U-16D	ONV-2U-16M
<b>Interface Characteristics</b>			
System Configuration	16*card slots 2*AC power	16*card slots 1*AC power	16* card slots (managed) 1*Card type network management card 2*AC power
Network Management Support	N/A	N/A	SNMP network management
Board Requirements	Common Fiber converter board		Managed Fiber converter board
Network Protocol	IEEE 802.3x IEEE 802.3 10BASE-T IEEE 802.3i 10Base-T IEEE 802.3u 100Base-TX/FX		IEEE 802.3x IEEE 802.3 10BASE-T IEEE 802.3i 10Base-T IEEE 802.3u 100Base-TX/FX IEEE 802.1p Qos IEEE 802.1d Spanning Tree
Ethernet Port	10/100Base-TX or 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption.		
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)		
Optical Cable/ Distance	Multi-mode: 850nm /0-550M, 1310nm/ 0- 2KM.	Single-mode: 1310nm/ 0-40KM, 1550nm/ 0-120KM.	
Total PWR / Input Voltage	60W/ (12VDC)		
Power Consumption	Standby<25W, Full load<60W		
LED Indicator	Power: PWR(Green), Data: Link (Green), Fiber: L/A (Green)		
Operation TEMP /	-20°C~+55°C, 5%~90% RH Non condensing		

Humidity	
Storage TEMP / Humidity	-40°C~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	428*322*88mm
Net /Gross Weight	<6.2kg/ <7kg
Installation	Desktop, Rack-mounted
Lightning Protection	Port lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	1 year, lifetime maintenance.

## ORDERING INFORMATION

Model	Description
ONV-2U-16	2U rack-mounted Fiber media converter with 16*card slots. It supports redundant AC dual power supplies. Total power 60W and support 19-inch cabinet installation.
ONV-2U-16D	2U rack-mounted Fiber media converter with 16*card slots. AC single power supply. Total power 60W and support 19-inch cabinet installation.
ONV-2U-16M	Managed 2U rack-mounted Fiber media converter with 16*card slots. It supports redundant AC dual power supplies. Total power 60W and supports 19-inch cabinet installation.

## PACKING LIST

	Content	Qty	Unit
Packing List	16-slot Fiber media converter 2U rack	1	SET
	AC Power Cable	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

## CONTACT US

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